Title (en)

EXTERNAL HEATING TYPE COAL MATERIAL DECOMPOSITION APPARATUS WITH MULTIPLE TUBES

Title (de)

KOHLEMATERIALZERSETZUNGSVORRICHTUNG MIT EXTERNER ERHITZUNG UND MEHREREN RÖHREN

Title (fr)

DISPOSITIF DE DÉCOMPOSITION D'UNE MATIÈRE DE TYPE CHARBON POUR CHAUFFAGE EXTERNE DOTÉ DE PLUSIEURS TUYAUX

Publication

EP 2634236 B1 20161005 (EN)

Application

EP 10858852 A 20101123

Priority

- CN 201010527824 A 20101026
- CN 2010078982 W 20101123

Abstract (en)

[origin: US2012308950A1] A multi-pipe external-heating coal decomposition equipment, comprising a airtight kiln body; a channel for impelling and decomposing coal is formed in the kiln body, which has a coal inlet, a coal outlet and a collecting pipe for coal decomposition gas; a heat transfer chamber is formed between the channel and inner wall of the kiln body, which is connected with a high temperature gas heating facility and comprises a heated gas outlet. Because the channel for impelling and decomposing coal is set in a kiln body with high temperature, so a vast of heat gas in high temperature kiln body surrounds the channel and its heat conducts and radiates to the pulverized coal in the channel. Thus, the pulverized coal can fully absorb the heat to be heated for decomposing to the gas, coal tar and coal with high heat-value in the channel.

IPC 8 full level

C10B 47/32 (2006.01); **C10B 53/04** (2006.01); **F27B 17/00** (2006.01); **F27D 99/00** (2010.01)

CPC (source: EP KR US)

C10B 47/00 (2013.01 - KR); **C10B 47/32** (2013.01 - EP US); **C10B 53/04** (2013.01 - EP KR US); **C10B 57/00** (2013.01 - KR); **F27B 9/14** (2013.01 - KR); **F27B 17/00** (2013.01 - EP US); **F27D 99/0001** (2013.01 - EP US); Y02P 10/143 (2015.11 - EP US)

Cited by

CN112299416A; CN105540581A

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DOCDB simple family (publication)

US 2012308950 A1 20121206; **US 9068122 B2 20150630**; AU 2010362962 A1 20120809; AU 2010362962 B2 20140710; CA 2806776 A1 20120503; CA 2806776 C 20171017; CN 101984022 A 20110309; CN 101984022 B 20110810; EP 2634236 A1 20130904; EP 2634236 A4 20141029; EP 2634236 B1 20161005; KR 101528411 B1 20150611; KR 20130065711 A 20130619; PL 2634236 T3 20170428; RO 129000 A2 20131129; RU 2012132000 A 20140210; RU 2521647 C2 20140710; UA 103982 C2 20131210; WO 2012055123 A1 20120503; ZA 201300644 B 20130925

DOCDB simple family (application)

US 201013578629 A 20101123; AU 2010362962 A 20101123; CA 2806776 A 20101123; CN 2010078982 W 20101123; CN 201010527824 A 20101026; EP 10858852 A 20101123; KR 20137008989 A 20101123; PL 10858852 T 20101123; RO 201200563 A 20101123; RU 2012132000 A 20101123; UA A201301294 A 20101123; ZA 201300644 A 20130124